



PATENT ABSTRACTS OF JAPAN

(11) Publication number: **2000179557 A**

(43) Date of publication of application: 27.06.00

(51) Int. Cl. **F16C 33/66**

(21) Application number: 10359382

(22) Date of filing: 17.12.98

(71) Applicant: **NSK LTD**(72) Inventor: **YABE SHUNICHI
AIHARA SHIGEAKI**(54) **ROLLER BEARING FILLED WITH POLYMER
CONTAINING LUBRICANT, AND ITS
MANUFACTURE**

COPYRIGHT: (C)2000,JPO

(57) Abstract

PROBLEM TO BE SOLVED: To provide a roller bearing filled with a polymer containing a lubricant capable of surely maintaining the smooth rotation for a long time, and its manufacturing method.

SOLUTION: In a roller bearing 1 filled with a polymer containing a lubricant in a space formed of an outer ring 2, an inner ring 3 and a rolling element 4, the roller bearing 1 filled with the polymer containing the lubricant is filled with a polymer 6, containing the lubricant through a grease film 5 of 10-1000 μm in thickness formed on an inner circumferential surface of at least the outer ring 2 of the roller bearing 1, an outer circumferential surface of the inner ring 3, and a surface of the rolling element 4.

